

SEQUENCE LISTINGSEQ ID No:1

gcgccccagt cgacgctgag ctccctctgct actcagagtt gcaacctcag cctcgctatg  
gctcccagca gcccccgcc cgcgctgccc gcactcctgg tccctgctcg ggctctgttc  
ccaggacctg gcaatgccca gacatctgtg tccccctcaa aagtcactct gccccgggga  
ggctccgtgc tgggtgacatg cagcacctcc tgtgaccagc ccaagttgtt gggcatagag  
accccgttgc ctaaaaagga gttgtcctg cctgggaaca accggaaggt gtatgaactg  
agcaatgtgc aagaagatag ccaaccaatg tgctattcaa actgccctga tgggcagtea  
acagctaaaa ccttcctcac cgtgtactgg actccagaac ggggtggaact ggcacccctc  
ccctcttggc agccagtggt caagaacctt accctacgct gccaggtgga ggggtgggga  
ccccgggcca acctcacctg ggtgctgtct cgtggggaga aggagctgaa acgggagcca  
gctgtggggg agcccgtga ggtcacgacc acgggtgctg tgaggagaga tcaccatgga  
gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggtgga gctgtttgag  
aacacctcgg cccctacca gctccagacc tttgtcctgc cagcgactcc cccacaactt  
gtcagcccc gggctcctaga ggtggacacg caggggaccg tggctgttct cctggacggg  
ctgttcccag tctcggaggc ccagggtccac ctggcactgg gggaccagag gttgaacccc  
acagtcacct atggcaacga ctcttctcgc gccaaaggct cagtcagtg gaccgcagag  
gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca  
ctgcagacag tgaccatcta cagcttccgc gcgccaacg tgattctgac gaagccagag  
gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caaggtgacg  
ctgaatgggg ttccagcccc gccactgggc ccgagggccc agctcctgct gaaggccacc  
ccagaggaca acgggcgcag cttctcctgc tctgcaacct tggaggtggc cgccagctt  
atacacaaga accagacctg ggagctcgt gtccctgtat gcccccgact ggaagagagg  
gattgtccgg gaaactggac gtggccagaa aattcccagc agactccaat gtgccaggct  
tgggggaacc cattgccga gctcaagtgt cttaaaggat gcactttccc actgccatc  
ggggaatcag tgactgtcac tgcagatctt gagggcacct acctctgtcg ggccaggagc  
actcaagggg aggtcacccg caaggtgacc gtgaatgtgc tctccccccg gtatgagatt  
gtcatcatca ctgtggtagc agccgcagtc ataattgggca ctgcaggcct cagcacgtac  
ctctataaacc gccagcggaa gatcaagaaa tacagactac aacaggccca aaaagggacc  
cccatgaaac cgaacacaca agccacgcct cctgaacct atcccgggac agggcctctt  
cctcggcctt cccatattgg tggcagtggt gccacactga acagagtga agacatctg  
catgcagcta cacctaccgg ccctgggacg ccggaggaca gggcattgtc ctcagtcaga  
tacaacagca tttggggcca tggtaacctg acacctaaaa cactaggcca cgcactctgat  
ctgtagtcac atgactaagc caagaggaag gagcaagact caagacatga ttgatggatg  
ttaaagtcta gcctgatgag aggggaagtg gtgggggaga catagcccca ccatgaggac  
atacaactgg gaaatactga aacttgctgc ctattgggta tgctgaggcc ccacagactt  
acagaagaag tggccctcca tagacatgtg tagcatcaaa acacaaaggc ccacacttcc  
tgacggatgc cagcttgggc actgctgtct actgacccca acccttgatg atatgtattt  
attcatttgt tattttacca gctatttatt gagtgtcttt tatgtaggct aatgaacat  
aggtctctgg cctcacggag ctcccagtc taatcacatt caaggtcacc aggtacagtt  
gtacaggttg tacactgcag gagagtgcct ggcaaaaaga tcaaatgggg ctgggacttc  
tcattggcca acctgccttt cccagaagg agtgattttt ctatcggcac aaaagcacta  
tatggactgg taatggttac aggttcagag attaccaggt gaggccttat tccctccctc  
ccccaaaac tgacaccttt gttagccacc tccccacca catacatttc tgccagtggt  
cacaatgaca ctacagcggtc atgtctggac atgagtgcc agggaatatg cccaagctat  
gccttgtcct cttgtcctgt ttgcatttca ctgggagctt gcactatgca gctccagttt  
cctgcagtga tcagggtcct gcaagcagtg ggggaagggg ccaaggtatt ggaggactcc  
ctccagctt tggaaagctc atccgcgtgt gtgtgtgtgt gtatgtgtag acaagctctc  
gctctgtcac ccaggctgga gtgcagtggt gcaatcatgg ttcactgcag tcttgacctt  
ttgggtcaa gtgactctcc cactcagcc tctgtagtag ctgggacctt aggtcacao  
caccacacct ggcaaatgtt atttttttt ttttccaga gacggggtct cgcaacattg  
cccagacttc ctttgtgtta gttataaag ctttctcaac tgcc

SEQ ID No:2

GGAGGCTCCGTGCTGGTGACATGCAGCACCTCCTGTGACCAGCCCAAGTT  
GTTGGGCATAGAGACCCCGTTGCCTAAAAAGGAGTTGCTCCTGCCTGGGAACAACCGGAA  
GGTGTATGAACTGAGCAATGTGCAAGAAGATAGCCAACCAATGTGCTATTCAAAC TGCC  
TGATGGGCAGTCAACAGCT

SEQ ID No:3

GGCAAGAACCTTACCCTACGCTGCCAGGT  
GGAGGGTGGGGCACCCCGGGCCAACCTCACCGTGGTGCTCCTGGGGAGAAGGAGCT  
GAAACGGGAGCCAGCTGTGGGGGAGCCGCTGAGGTCACGACCACGGTGCTGGTGAGGAG  
AGATCACCATGGAGCCAATTTCTCGTGCCGCACTGAACTGGACCTGCGG

SEQ ID No:4

mapssprpal pallvllgal fpgpgnaqts vpskvilpr ggsvlvtcst scdqpkllgi  
etplpkkell lpgnnrkvy lsnvqedsqp mcysncpdgq staktfltv wtpervelap  
lpswqpvgn ltlrcqvegg apranltvvl lrgekelkre pavgepaevt ttvlvrrdhh  
ganfscrtel dlrrpgglelf entsapyqlq tfvlpatppq lvsprvlevd tqgtvvcsl  
glfpvseaqv hlalgdqrln ptvtygndsf sakasvsvta edegtqrllc avilgnqsqe  
tlqvtiysf papnviltkp evsegtevtv kceahprakv tlngvpaqpl gpraqlllka  
tpedngrsfs csatlevagq lihknqtrcl rvlygprlde rdcpgnwtwp ensqgtpmcq  
awgnplpelk clkdgtfplp igesvtvtrd legtylcrar stggevtrv tvnvlsprie  
iviitvvaav vimtaglst ylynrqrkik kyrlqgaqkg tpmkpntqat pp

SEQ ID No:5

GlyGlySerValLeuValThrCysSerThrSerCysAspGlnProLysLeu  
uLeuGlyIleGluThrProLeuProLysLysGluLeuLeuProGlyAsnAsnArgLy  
sValTyrGluLeuSerAsnValGlnGluAspSerGlnProMetCysTyrSerAsnCysPr  
oAspGlyGlnSerThrAla

SEQ ID No:6

GlyLysAsnLeuThrLeuArgCysGlnVal  
lGluGlyGlyAlaProArgAlaAsnLeuThrValValLeuLeuArgGlyGluLysGluLe  
uLysArgGluProAlaValGlyGluProAlaGluValThrThrThrValLeuValArgAr  
gAspHisHisGlyAlaAsnPheSerCysArgThrGluLeuAspLeuArg

SEQ ID No:7

atggcttcaa cccgtgccaa gccacgcta cctctgetcc tggccctggt caccgttgtg  
atccctgggc ctggtgatgc tcaggtatcc atccatccca gagaagcctt cctgccccag  
ggtgggtccg tgcaggtgaa ctgttcttcc tcatgcaagg aggacctcag cctgggcttg  
gagactcagt ggctgaaaga tgagctcgag agtggaccca actggaagct gtttgagctg  
agcgagatcg gggaggacag cagtccgctg tgctttgaga actgtggcac cgtgcagtcg  
tccgcttccg ctaccatcac cgtgtattcg tttccggaga gtgtggagct gagacctctg  
ccagcctggc agcaagtagg caaggacctc accctgcgct gccacgtgga tggaggagca  
ccgaggaccc agctctcagc agtgcgtgctc cgtggggagg agatactgag ccgccagcca  
gtgggtgggc accccaagga cccaaggag atcacattca cgggtgctggc tagcagaggg  
gaccacggag ccaatttctc atgccgcaca gaactggatc tcaggccgca agggctggca  
ttgttctcta atgtctccga ggccaggagc ctccggactt tcgatcttcc agctaccatc  
ccaaagctcg acaccctga cctcctggag gtgggcaccc agcagaagtt gttttgctcc  
ctggaaggcc tgtttcctgc ctctgaagct cggatatacc tggagctggg aggccagatg

ccgaccagg agagcacaaa cagcagtgc tctgtgtcag ccactgcctt ggtagaggtg  
actgaggagt tcgacagaac cctgccgctg cgctgcgttt tggagctagc ggaccagatc  
ctggagagcg agaggacctt aacagtctac aacttttcag ctccggtcct gacctgagc  
cagctggagg tctcggaagg gagccaagta actgtgaagt gtgaagccca cagtgggtcg  
aaggtggttc ttctgagcgg cgctcagcctt aggccacca ccccgaggtt ccaattcaca  
ctgaatgcc a gctcggagga tcacaaacga agcttctttt gctctgccgc tctggaggtg  
gcgggaaagt tcctgtttta aaaccagacc ctggaactgc acgtgctgta tggctcctcg  
ctggacgaga cggactgctt ggggaactgg acctggcaag aggggtctca gcagactctg  
aaatgccagg cctgggggaa cccatctcct aagatgacct gcagacggaa ggcagatggt  
gccctgctgc ccatcggggt ggtgaagtct gtcaaacagg agatgaatgg tacatactg  
tgccatgctt ttagctccca tgggaatgct accaggaatg tgtacctgac agtactgtac  
cactctcaaa ataactggac tataatcatt ctggtgccag tactgctggt cattgtgggc  
ctcgtgatgg cagcctctta tgtttataac cgccagagaa agatcaggat atacaagtta  
cagaaggctc aggaggaggc cataaaactc aagggacaag cccacacctc ctga

SEQ ID No:8

GGCACCCAGCAGAAGTTGTTTGG  
CTCCCTGGAAGGCCTGTTTCTGCCTCTGAAGCTCGGATATACCTGGAGCTGGGAGGCCA  
GATGCCGACCCAGGAGAGCACAACAGCAGTGACTCTGTGTGAGCCACTGCCTTGGTAGA  
GGTGACTGAGGAGTTCGACAGAACCCTGCCGCTGCGCTGCGTTTTGGAGCTAGCGGACCA  
G

SEQ ID No:9

GGGAGCCAAGTAACTGTGAAGTGTGAAGCCCACAGTGG  
GTCGAAGGTGGTTCTTCTGAGCGGCGTCGAGCCTAGGCCACCCACCCGCAAGTCCAATT  
CACACTGAATGCCAGCTCGGAGGATCACAAACGAAGCTTCTTTTGCTCTGCCGCTCTGGA  
GGTG

SEQ ID No:10

GAGGGGTCTCAGCAGAC  
TCTGAAATGCCAGGCTGGGGGAACCCATCTCCTAAGATGACCTGCAGACGGAAGGCAGA  
TGGTGCCCTGCTGCCCATCGGGGTGGTGAAGTCTGTCAAACAGGAGATGAATGGTACATA  
CGTGTGCCATGCCTTTAGCTCC

SEQ ID No:11

GlyThrGlnGlnLysLeuPheCy  
sSerLeuGluGlyLeuPheProAlaSerGluAlaArgIleTyrLeuGluLeuGlyGlyGl  
nMetProThrGlnGluSerThrAsnSerSerAspSerValSerAlaThrAlaLeuValGl  
pValThrGluGluPheAspArgThrLeuProLeuArgCysValLeuGluLeuAlaAspGl  
n

SEQ ID No:12

GlySerGlnValThrValLysCysGluAlaHisSerGl  
ySerLysValValLeuLeuSerGlyValGluProArgProProThrProGlnValGlnPh  
eThrLeuAsnAlaSerSerGluAspHisLysArgSerPhePheCysSerAlaAlaLeuGl  
uVal

SEQ ID No:13

GluGlySerGlnGlnTh  
rLeuLysCysGlnAlaTrpGlyAsnProSerProLysMetThrCysArgArgLysAlaAs  
pGlyAlaLeuLeuProIleGlyValValLysSerValLysGlnGluMetAsnGlyThrTy  
rValCysHisAlaPheSerSer

SEQ ID No:14

ATGGCTCCCAGCAGCCCCGGCCGCGCTGCCCGCACTCCTGGTCCTGCT  
CGGGGCTCTGTTCCAGGACCTGGCAATGCCAGACATCTGTGTCCCCCTCAAAAGTCAT  
CCTGCCCGGGGAGGCTCCGTGCTGGTGACATGCAGCACCTCCTGTGACCAGCCCAAGTT  
GTTGGGCATAGAGACCCCGTTGCCATAAAAAGGAGTTGCTCCTGCCTGGGAACAACCGGAA  
GGTGATGAAGTGAAGCAATGTGCAAGAAGATAGCCAACCAATGTGCTATTCAAACGTCCCC  
TGATGGGCAGTCAACAGCTAAAACCTTCCTCACCCTGTACTGGACTCCAGAACGGGTGGA  
ACTGGCACCCCTCCCTCTTGGCAGCCAGTGGGCAAGAACCTTACCCTACGCTGCCAGGT  
GGAGGTGGGGCACCCCGGCCAACCTCACCCTGGTGCTGCTCCGTGGGGAGAAGGAGCT  
GAAACGGGAGCCAGCTGTGGGGGAGCCCGCTGAGGTACGACCACGGTGCTGGTGAGGAG  
BglI

AGATCACCATGGAGCCAATTTCTCGTGCCGCACTGAACTGGACCTGCGGCCCAAGGGCT  
GGCATTGTTCTCTAATGTCTCCGAGGCCAGGAGCCTCCGGACTTTCGATCTCCAGCTAC  
CATCCCAAAGCTCGACACCCCTGACCTCCTGGAGGTGGGCACCCAGCAGAAGTTGTTTTG  
CTCCCTGGAAGGCTGTTCCTGCCTCTGAAGCTCGGATATACCTGGAGCTGGGAGGCCA  
GATGCCGACCCAGGAGAGCACAAACAGCAGTGAATCTGTGTGAGCCACTGCCTTGGTAGA  
GGTGACTGAGGAGTTCGACAGAACCCTGCCGCTGCGCTGCGTTTTGGAGCTAGCGGACCA  
GATCCTGGAGACGCAGAGGACCTTAACAGTCTACAACCTTTTCAGCTCCTGTCTGACCCT  
GAGCCAGCTGGAGGTCTCGGAAGGGAGCCAAGTAAGTGTGAAGTGTGAAGCCACAGTGG  
GTCGAAGGTGGTTCTTCTGAGCGGCGTCGAGCCTAGGCCACCCACCCCGCAAGTCCAATT  
CACACTGAATGCCAGCTCGGAGGATCACAAACGAAGCTTCTTTTGCTCTGCCGCTCTGGA  
GGTGGCGGGAAAGTTCTGTTTAAAACAGACCCTGGAAGTGCACGTGCTGTATGGTCC  
TCGGCTGGACGAGACGGACTGCTTGGGGAAGTGGACCTGGCAAGAGGGGTCTCAGCAGAC  
TCTGAAATGCCAGGCTTGGGGGAACCCATCTCCTAAGATGACCTGCAGACGGAAGGCAGA  
TGGTGCCCTGCTGCCCATCGGGGTGGTGAAGTCTGTCAAACAGGAGATGAATGGTACATA  
CGTGTCATGCCTTTAGCTCCCATGGGAATGTACCAGGAATGTGTACCTGACAGTACT  
GTACCACTCTCAAATAACTGGACTATAATCATTCTGGTGCCAGTACTGCTGGTCATTGT  
GGGCCTCGTGATGGCAGCCTCTTATGTTTATAACCGCCAGAGAAAGATCAGGATATACAA  
GTTACAGAAGGCTCAGGAGGAGGCCATAAACTCAAGGGACAAGCCCCACCTCCCTGA

SEQ ID No:15

MetAlaProSerSerProArgProAlaLeuProAlaLeuLeuValLeuLe  
uGlyAlaLeuPheProGlyProGlyAsnAlaGlnThrSerValSerProSerLysValIl  
eLeuProArgGlyGlySerValLeuValThrCysSerThrSerCysAspGlnProLysLe  
uLeuGlyIleGluThrProLeuProLysLysGluLeuLeuLeuProGlyAsnAsnArgLy  
sValTyrGluLeuSerAsnValGlnGluAspSerGlnProMetCysTyrSerAsnCysPr  
oAspGlyGlnSerThrAlaLysThrPheLeuThrValTyrTrpThrProGluArgValGl  
uLeuAlaProLeuProSerTrpGlnProValGlyLysAsnLeuThrLeuArgCysGlnVa  
lGluGlyGlyAlaProArgAlaAsnLeuThrValValLeuLeuArgGlyGluLysGluLe  
uLysArgGluProAlaValGlyGluProAlaGluValThrThrValLeuValArgAr  
gAspHisHisGlyAlaAsnPheSerCysArgThrGluLeuAspLeuArgProGlnGlyLe  
uAlaLeuPheSerAsnValSerGluAlaArgSerLeuArgThrPheAspLeuProAlaTh  
rIleProLysLeuAspThrProAspLeuLeuGluValGlyThrGlnGlnLysLeuPheCy  
sSerLeuGluGlyLeuPheProAlaSerGluAlaArgIleTyrLeuGluLeuGlyGlyGl  
nMetProThrGlnGluSerThrAsnSerSerAspSerValSerAlaThrAlaLeuValGl  
uValThrGluGluPheAspArgThrLeuProLeuArgCysValLeuGluLeuAlaAspGl  
nIleLeuGluThrGlnArgThrLeuThrValTyrAsnPheSerAlaProValLeuThrLe

uSerGlnLeuGluValSerGluGlySerGlnValThrValLysCysGluAlaHisSerGly  
ySerLysValValLeuLeuSerGlyValGluProArgProProThrProGlnValGlnPh  
eThrLeuAsnAlaSerSerGluAspHisLysArgSerPhePheCysSerAlaAlaLeuGly  
uValAlaGlyLysPheLeuPheLysAsnGlnThrLeuGluLeuHisValLeuTyrGlyPr  
oArgLeuAspGluThrAspCysLeuGlyAsnTrpThrTrpGlnGluGlySerGlnGlnThr  
rLeuLysCysGlnAlaTrpGlyAsnProSerProLysMetThrCysArgArgLysAlaAs  
pGlyAlaLeuLeuProIleGlyValValLysSerValLysGlnGluMetAsnGlyThrTy  
rValCysHisAlaPheSerSerHisGlyAsnValThrArgAsnValTyrLeuThrValLe  
uTyrHisSerGlnAsnAsnTrpThrIleIleIleLeuValProValLeuLeuValIleVa  
lGlyLeuValMetAlaAlaSerTyrValTyrAsnArgGlnArgLysIleArgIleTyrLy  
SleuGlnLysAlaGlnGluGluAlaIleLysLeuLysGlyGlnAlaProProPro

## SEQ ID No:16

ctgctgctg	cactttgcc	tggtcctcca	atggcttcaa	cccgtgccag	gcccatgctg
cctctgctcc	tggtcctggt	cgccgttgtg	atccccgggc	ctgtcggtgc	tcaggtatcc
atccatccca	cagaagcctt	cctgcctcgg	ggtggatccg	tgcaggtgaa	ctgctcttcc
tcttgcaag	acgagaacct	cgccctgggg	ttggagacta	actggatgaa	agacgaacta
tcgagtggac	acaactggaa	gctcttcaag	ctgagcgaca	ttgggggaaga	cagcagacca
ctgtgctttg	agaactgtgg	caddacgcag	tcctcggctt	ctgccaccat	cactgtgtat
tcgttcccag	agcgagtgg	gctggatcct	ctgcccgcct	ggcagcaggt	gggcaagaac
ctcatcctgc	gctgcctggt	ggaaggcgga	gcaccgcgga	cacagctctc	agtagtctg
ctccgtggga	atgagacact	gagccgccag	gcagtggatg	gggaccccaa	ggagatcaca
ttcacggtgc	tgccagcag	aggcgaccac	ggagccaatt	tctcatgctt	cacagaactg
gacctcaggc	cacaagggtc	gtcactgttc	aagaatgtct	ccgaggtcag	gcagctccgg
actttcgatc	ttccgactag	ggtcctgaag	ctcgacaccc	ctgacctcct	ggaggtgggc
accagcaga	agttcttgtg	ttccctggaa	ggcctgtttc	ctgcctctga	agctcagata
tacctggaga	tgaggaggcca	gatgctgacc	ctggagagca	caaacagcag	agattttgtg
tcagccactg	cctcagtgg	ggtgactgag	aagttggaca	gaaccctgca	gctgcgctgt
gttttggagc	tgccggacca	gacctggag	atggagaaga	ccttgagaat	ctacaacttt
tcagctccca	tcctgaccct	gagccagccg	gaggtctcag	aaggggacca	agtaactgtg
aagtgtgaag	cccacgggtg	ggcacagggt	gtgcttctga	acagtacttc	ccccaggcca
cccacctcac	agggtaacttc	ccccaggcca	cccacctcac	agatccaatt	cacactgaat
gccagcccg	aggatcacaa	acgacgcttc	ttttgctctg	cgcccttgga	ggtggatggg
aagtcctgt	ttaaaaacca	gaccttgga	ctccatgtgc	tatatggtcc	tcacctggac
aagaaggact	gcttggggaa	ctggacctgg	caagaggggt	ctcagcagac	tcttacatgc
cagccccagg	ggaatccagc	ccctaactctg	acctgcagcc	ggaaaagcaga	tggtgtcccg
ctgcctatcg	ggatgggtgaa	gtctgtcaaa	cgggagatga	atggtacct	caagtgcctg
gcctttagct	cccgtgggag	tatcaccagg	gacgtgcacc	tgacagtget	gtaccatgat
cagaatacct	gggtcataat	tggtggtgtg	ttggtactga	tcattgcggg	cttcgtgatc
gtggcgctca	tttacacct	ttaccgccag	aggaagata	ggatatacaa	gttacagaag
gctcaggagg	aggccctaaa	actcaaggta	caagccccgc	ctccctgagc	ccactggaca
ggacacctgc	ctgggccccg	ctgctcttga	acagatcaat	ggacagcatt	taccctcac
ccacctctc	tggtgtcac	aggacaggac	agtggcctgg	ggatgcatac	ttgtagcctc
aggcctaaga	ggactcggag	gggcaagact	gtgaactcgt	gacctggaca	cacctacagc
ctgggtgggc	tgcagccaag	aaaggctgac	ttccttctct	attaccctg	ctgaggggcc
ccctacctta	ggaagggtgtg	atatccggt	gacacaagca	agagaagaaa	aggaacacca
tgcttctct	gacatgggaa	agctgggaca	ctgtccccaa	ctcttggtga	tgtatttatt
aattcagagt	tctgacagtt	atttattgag	taccctgtac	agacactaga	ggagtggaca
ggttaacagt	taagttattg	cctagaccct	gggtgaagg	cacaacagag	tctggggaaa
gatcatacgg	gtttgggctt	ctccacagg	cagggtgctt	tcctcaaaaag	agctgatttc
tttcacgagt	catataaata	ctatgtggac	gagcagtggc	cctctgctcg	tagacctctc
tgggaccct	gcctcctccc	acagcctgga	gtctcccagc	accagcatgg	gtgaccacct
ccccacctac	atacatctct	acctttgttc	ccaatgtcaa	ccaccatgcc	taaatatgga
cgctcacctt	tagcagctca	acaatggagt	ctcatgccc	tgaaattatg	gtcaatccct
gcatgcctcc	accgggtcc	acctcaaaga	gaatgcctgg	gagaaaatgt	tccaaccact
tagaagggtc	ctgcaagctg	ttgtgggagg	gtaggcacc	ctcccagcgc	agaagccttt

**BEST AVAILABLE COPY**

**WO 2004/009810**

**PCT/EP2003/007939**

**6/6**

cctttgaatc aataaagttt ta